

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 223 13-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,042	02/14/2002	Takashi Namura	32178-178296	6657
7:	590 12/13/2005		EXAMINER	
Venable			MARCELO, MELVIN C	
P.O. Box 34385			<u> </u>	
Washington, D	C 20043-9998		ART UNIT	PAPER NUMBER
			2662	
			DATE MAILED: 12/13/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/074,042	NAMURA, TAKASHI				
Office Action Summary	Examiner	Art Unit				
	Melvin Marcelo	2662				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	iress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this cor D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14 Fe	ebruary 2002.					
·	action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	•					
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner	•					
10)⊠ The drawing(s) filed on <u>14 February 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
			CI.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		7. October of Tollier T	3 102.			
<u> </u>	nrianitu undar 25 II C.C. C 440(a)	(4) (6)				
12) △ Acknowledgment is made of a claim for foreign a) △ All b) □ Some * c) □ None of:	phoney under 35 O.S.C. § 119(a)	-(a) or (i).				
1.⊠ Certified copies of the priority documents	have been received					
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the priority			`**			
	·	u iii uiis Nauonai s	otage			
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary					
P) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal Pa		152)			
Paper No(s)/Mail Date	5) Notice of Informal Patent Application (PTO-152) 6) Other:					

Application/Control Number: 10/074,042 Page 2

Art Unit: 2662

DETAILED ACTION

Drawings

1. The drawings are objected to because the box diagrams in Figures 1, 2, 4, 11, 12, 16, 17, 20 and 21 lack descriptive labels. These labels serve an important purpose in aiding the search of the prior art should the application issue as a patent. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 2662

Claim 1, line 10, "said empty area" lacks a proper antecedent basis since there is no prior mention of an 'empty area'.

Allowable Subject Matter

- 4. Claims 1-13 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 5. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record such as Sakamoto et al. (US 6,185,212 B1) teach a pre-allocated two frames per connection memory structure (Figure 3), whereas applicant's invention provides a more dynamic allocation of the memory wherein set frame length areas are allocated based on the connection status (new or same) and the status of the frame for the same connection (cells of one frame already written or not).

Claims

1. A communication control apparatus for collecting cells belonging to a same connection among a plurality of cells which are inputted, assembling a frame every connection, and outputting each of said frames as frame data, comprising:

a frame assembly memory having a plurality of areas which were set so as to correspond to a maximum one of a plurality of frame lengths which are handled;

a memory write control unit constructed in a manner such that when a cell of a new connection is inputted, said new connection is allocated to said empty area in said frame assembly memory to which the connection is not allocated yet and said cell is written therein, and on the other hand, when the cell of the same connection as the connection which has already been allocated to any of said areas is inputted, said cell is written into said area to which said connection has already been allocated, and if the cells of one frame have already been written in said area, said connection is allocated to another new area, and said input cell is written therein; and

a memory read control unit which reads out said collected cells of one frame from said frame assembly memory and outputs them as completed-frame data.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melvin Marcelo whose telephone number is 571-272-3125. The examiner can normally be reached on Mon-Fri 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Melvin Marcelo Primary Examiner Art Unit 2662 Page 4

December 10, 2005